CONTENTS TO VOLUME 52

Part 1 August 1994

Bifurcation of BGK waves in a plasma of cold ions and electrons. L. Hannibal, E. Rebhan and C. Kielhorn 1

Magnetohydrodynamic instability driven by cosmic rays. C. Ko and A. Jeng 23

Effect of high-frequency magnetic fluctuations on MHD waves. T. K. Nakamura and C. F. Kennel 43

Nonlinear Landau damping in a relativistic plasma. J. Mukherjee and A. Roy Chowdhury 55

Nonlinear evolution of Langmuir and electromagnetic pulses in a warm, unmagnetized plasma: modulational instability, integrability and self-focusing in 2+1 dimensions. R. E. Kates and D. J. Kaup 75

Tokamak divertor maps. A. Punjabi, A. Verma and A. Boozer 91

Rotating magnetohydrodynamics. X. Shan and D. Montgomery 113

Toroidal equilibrium of rotating plasma with adiabatic constraints. A. Gałkowski and R. Żelazny 129

Steady MHD flows with an ignorable coordinate and the potential transonic flow problem. G. M. Webb, M. Brio and G. P. Zank 141

Part 2 October 1994

Anisotropic self-focusing of a Trivelpiece–Gould mode in a plasma. A. K. Sharma and S. Konar 189

Electron–cyclotron absorption by inhomogeneous current-carrying plasmas. C. H. Cavalcanti, R. S. Schneider and L. F. Ziebell 195

Resonant absorption of Alfvén waves near a neutral point. C. Uberoi 215

The role of density jump in the Kelvin–Helmholtz instability of a compressible plasma. A. G. Gonzalez and J. Gratton 223

A Fourier-space description of oscillations in an inhomogeneous plasma. Part 1. Continuous Fourier transformation. Z. Sedláček and P. S. Cally 245

A Fourier-space description of oscillations in an inhomogeneous plasma. Part 2. Discrete approach. P. S. Cally and Z. Sedláček 265

Characteristics and Riemann invariants for multi-ion plasmas in the presence of Alfvén waves. R. Ratkiewicz, D. E. Innes and J. F. McKenzie 297

Transport coefficients for a two-temperature equal-mass plasma in a uniform magnetic field. S. Y. Abdul-Rassak and E. W. Laing 309

Axial structure of surface-wave-sustained discharges influenced by local plasma resonances. Yu M. Aliev, A. V. Maximov, H. Schlüter and A. Shivarova 321

Acceleration of charged particles by large-amplitude electromagnetic waves. S. P. Kuo and M. C. Lee 339

Part 3 December 1994

Envoi. J. P. Dougherty 343

Self-similar cylindrical expansion of impurity particles in a plasma. M. Y. Yu and R. Bharuthram 345

Short-wavelength ion Bernstein nonlinear waves and solitons. T. A. Davydova, I. A. Fishchuk and V. M. Lashkin 353

Fusion conditions in a finite-thickness gas-puff staged Z-pinch. A. M. Mirza, N. A. Khattak, M. Iqbal and G. Murtaza 365

Nonlinear plasma waves with steady-state d.c. current. S. Rauf and J. A. Tataronis 373

Self-focusing of surface waves in a cylindrical plasma waveguide. M. Georgieva, A. Shivarova, and I. Urdev 391

Obliquely propagating ion-acoustic solitons in a multi-component magnetized plasma with negative ions. M. K. Mishra, R. S. Chhabra and S. R. Sharma 409

Electromagnetism of isotropic relativistic plasmas: Maxwell's formalism and the choice of gauge. P. De Gottal and J. Gariel 431

Propagation of electromagnetic waves in inhomogeneous plasmas. E. Busatti, A. Ciucci, M. De Rosa, V. Palleschi, S. Rastelli, M. Lontano and N. Lunin 443

Bifurcations in an advanced two-chamber model for the edge plasma in a divertor tokamak. A. Punjabi and M. Soe 457

Helicon waves in a cylindrical plasma column. M. M. Shoucri 465

Transverse electromagnetic modes in a hot cylindrical plasma column. M. M. Shoucri 471

Author Index to Volume 52 483